

M
656
1841S4

Bark
Star, 1841
Ship
Cato, 1842
Sch.
Munsterlass
1843
Ship
Ibzaide
1844
St. Helena

M
656
1841S4

The seal of the Essex Institute is circular. It features a central illustration of a classical lamp of knowledge resting on a stack of books. The words "ESSEX INSTITUTE" are inscribed in a circle around the top, and the dates "1821" and "1836" are at the bottom, separated by a small star.

PRESENTED BY
GEORGE H. ALLEN

Received Before 1230

1-24-23-3M M656 184154

Brown Master
Procter
no Nov. Land
1st office
A. A. Procter
Amos a
1st office
25 - 2 1/2

Ship Cat. of Bost
 0 Buss. 12 crew: 2 officers... Mr. S. Parker Supercargo
 From Boston 7th Oct: 1842. Passengers Mr. W. L. Linsie
 & Mr. F. G. Sexta of Boston. & Miss A. L. Carol &
 Mr. Henry A. Carol of Saint Helens - with Servant.
 Arrived at Cape Horn 4th Nov.

464 Tony

SEA JOURNAL.

JOURNAL OF A VOYAGE

From *Saint Helena* to *Salem* in
 the *Barque Star of Salem* commanded
 by *Edward Brown Esq.*
 Begun *November 3rd 1841* 18 and
 terminated - *Decr. 14th 1841* 18

Began Oct 15th
Terminated
 KEPT BY
Henry H. Canal



Star of Salem
Ship "Cato" of Boston

MANUFACTURED BY

JOHN P. JEWETT,

NO. 193, ESSEX STREET, OPPOSITE THE MANSION HOUSE,

Salem, Massachusetts.

FOR SALE AT WHOLESALE AND RETAIL.

ALSO.....Constantly on hand and for sale at the lowest Cash Prices,

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MUSICAL INSTRUMENTS AND STRINGS.

AT WHOLESALE AND RETAIL.

Gazette Press.

172 Days 194

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KEPT BY

Terminated

Henry H. Canal

26th

*37 18th
67-53*



Ship

Cato

*25th
18th
25th
18th
25th
18th*

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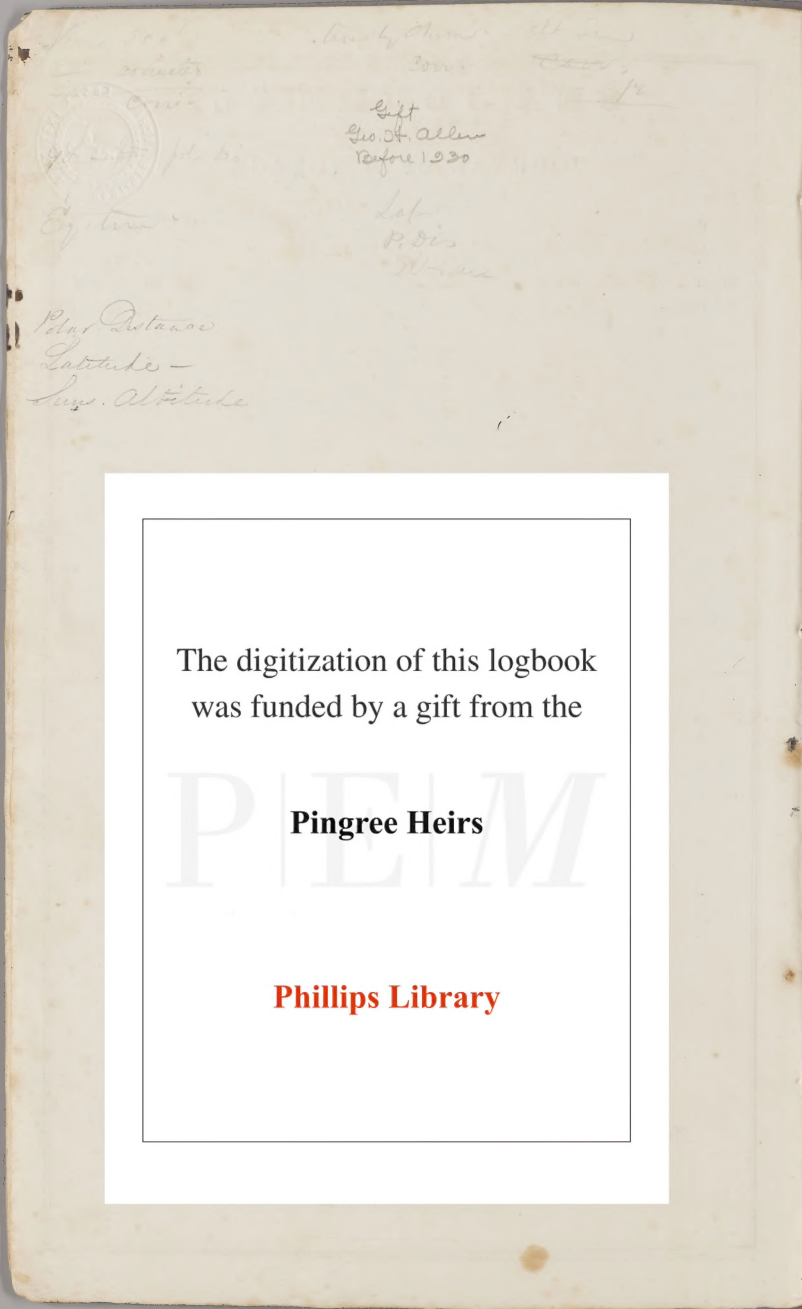
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Barque Star from St Helena towards Salem U.S.A.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	7		W to S. E. S. E.			Thursday Nov. 4. 1841
2	7					At 3 P.M. St Helena in sight
3	7					Astern 30 Miles distant
4	7					
5	7					
6	7					
7	7					Rainy throughout the night
8	7					
9	7					
10	7					Morning Ship in sight
11	7					astern
12	7					
1	7					
2	7					
3	7					Ends with fine Trade
4	7					
5	7					
6	7					
7	7					Latitude Obs 14.30 South
8	7					
9	7					
10	7					Longitude p ^d Chron 8.02 West
11	7					
12	7					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	0	1	W to S. E. S. E.			Friday Nov. 5. 1841.
2	0	1				Passing rain squalls
3	0	1				throughout these 24 hours
4	0	1				
5	0	1				All hands upon the
6	0	1				rigging
7	0	1				
8	0	1				
9	0	1				
10	0	1				
11	0	1				
12	0	1				Ship not in sight astern
1	0	1				
2	0	1				
3	0	1				
4	0	1				
5	0	1				Latitude Obs 13.12 South
6	0	1				
7	0	1				
8	0	1				
9	0	1				Longitude p ^d Chron 10.19 West
10	0	1				
11	0	1				
12	0	1				

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

Trip "Cale" from Boston - towards "Cape Horn"

H. K. H.K. Courses. Winds. L.W. Remarks. Wednesday 8th Oct. 1842

1						This day commences with fair weather. - Wind S.E. light breezes at 10 AM. - Boat hauled on beach, and heaved to in the stream. at 12 M. - sails to anchor, all hands aboard, and on duty. - Wind freshening to S.E. and South at 1 PM. This day all well.
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						This day commences with fair weather. - Wind S.E. light breezes at 10 AM. - Boat hauled on beach, and heaved to in the stream. at 12 M. - sails to anchor, all hands aboard, and on duty. - Wind freshening to S.E. and South at 1 PM. This day all well.
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varin. Diff. Long. Long. in Long by Ob.

H. K. H.K. Courses. Winds. L.W. Remarks. Thursday 9th Oct. 1842,

1	S.E.	S.W.	This day commences with pleasant
2			weather, wind S.W.
3			
4			
5			At 8 P.M. set the watch,
6			middle part, clear & pleasant
7			at 8 AM. hove up the anchor &
8			made all necessary sail, &
9			proceeded down the harbor.
10			at 10 AM. passed Boston Light
11			house, and discharged the Pilot.
12			Latter part, pleasant trim. N.E.W.
1			all hands employed stowing anchors
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varin. Diff. Long. Long. in Long by Ob.

Ship *Kato* from *Boston* — towards *Cape Good Hope*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
						<i>October 8th 1842.</i>
1						
2						First part of this day, pleasant
3						weather, with a fine breeze from
4						N. E. W.
5						
6						At 8 P.M. Cape and Light bore.
7						$\frac{1}{2}$ m. by W. 15 miles distant,
8						from which we take our dip.
9	1		SE by S	S. W.		at midnight, strong breezes &
10	1					clear weather, all we carry sail
11	1					set. Latter part, moderate, with
12	1		SE			passing clouds. — Latitude obs
1	2					— 41° 07' N.
2	3					Variation $\frac{1}{2}$ point Westerly
3	4					41° 06' North.
4	5					by 1° 56' 71.
5	6					
6	7					
7	8					
8	9		ESE	South		
9	10					
10	11					
11	12					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E. by S	89.	0° 51'	36	41° 07' N.	41° 06' N.	8° W	1° 36'	68° 24'	by 56 71

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
						<i>October 9th 1842.</i>
1	4		E. S. E.	South		First part of this day, good weather
2	4					and moderate breezes.
3	4					
4	3					middle part moderate
5	2					
6	2					
7	1					At 10 A.M. took in the royal &
8	2					flying jib — at mid day, rainy
9	2					weather, and squally.
10	3					Gulf Wind —
11	4					Variation $\frac{3}{4}$ Point Westerly
12	3					
1	3					Spoke English Drig Bligh
2	3					from Jamaica — bound to
3	3					Halifax —
4	5					
5	4					
6	4					
7	5					
8	5	1				
9	5	1				
10	5	1				
11	5	1				
12	5	1				

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E. by N.	84.	0° 12'	36	41° 16' N.	41° 06' N.	4° W	1° 56'	69° 28'	by 56 71

Ship "Cato" from Boston towards Cape Horn.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		8 feet	SE		This day comes in with moderate
2	2					rainy weather. At 4 P.M. took
3	3					in the top 5 sails
4	4		186 ft.	SE		
5	4					At 6 P.M. double reefed the
6	3					top sails, and furlled the main sail
7	3		86 ft	SE		at 8 o'clock reef & furlled the 5th sail
8	2					at 11 set the 4th sail, middle part
9	2					fore gales, and rainy weather
10	2					at 2 am. Set the main sail &
11	3		58	SW		turned over the reef. at 4 set the
12	5					5th sails and all. By day. at 8. Set
1	4					5th sails - large part - also masted
2	4		58	W		square barge, and hauls in reef
3	4					
4	4					
5	6					
6	6					
7	6					
8	7					
9	7					
10	7					
11	8					
12	8					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 22° S	101.0	0° 39' S.	93° E	40° 39' N	0	11° W.	2° 02' E	62° 04' W.	

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1		58.			Announces with fresh
2	1					breeze from the N. W.
3	1					
4	1					at 6 P.M. Reel Ship & set the
5	1					5th sails
6	1					Middle part moderate & baffling
7	1					latter part, calm
8	1					Gulf Wind
9	1					Lat. Obs 39° 52' N.
10	1					Long. ... 62° 38' W.
11	1		58.			
12	1					
1	1					
2	1					
3	1					
4	1					
5	1		58. W.			
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 22° S	79.	0° 44' S.	18° E.	39° 55' N	0	12° W.	1° 26' E	62° 38' W.	0.

Ship: "Cati" from Boston towards Cape Horn

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1		ENE	SE.		October 12th 1892
2	2					First part of the day, not so much
3	2					weather, also baffling wind.
4	3					
5	0					At 5 P.M. took on Royals, 7.5 ft. &
6	4					T.S. Sails.
7	5		S. by N. SSE.			At 8.30 trouble, reef the Sails.
8	6					at 9.30 close reef, furl the
9	6					mainsail & 1st. Sail.
10	6					
11	5		ESE	S.		At midnight, fresh breezes &
12	4					Squally.
1	2					At 6 A.M. squared the yards, set the
2	2					1st. Sail, & main sail - at 9.30 out
3	2					all reef, and set T.S. Sails.
4	2					
5	2					Setter part fresh gales &
6	2		SE by E SW.			clear weather -
7	8					variation - 1 Point West by
8	8					
9	7					
10	7					
11	7					
12	7					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 55°	98.	0° 09' S.	E	39° 46' N.	0.	12° W.	1° 05' E.	0° 33' N.	0.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	8		SE by E W. S. W.			October 13th 1892
2	8					This day, course in mid gale
3	8					breezes & squally -
4	8					
5	8					middle part, moderate clear
6	8					weather.
7	8					
8	8					
9	7		N. W.			Setter part, pass breeze &
10	6					fair weather.
11	5					
12	5					
1	6					
2	6					Latitude 22. 28 50 N.
3	6					Long. 114 51 33 W.
4	6					
5	6					
6	6					
7	7					
8	7					
9	7					
10	8					
11	8					
12	8					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 20°	114	0° 58' S.	E	31° 50' N.	31° 50' N.	3° NE	1° 10' E.	0° 33' N.	0.

Ship's *Cato* from *Wester* towards *Cape Horn*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	✓		SE.	SW		On a day comes in with fine
2	✓					weather. Am. to a breeze.
3	✓					W. side port squally & baffling
4	✓					Letter post fresh breeze &
5	✓					cloudy - all hands on duty
6	✓					Self made Pilot
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					North
2	✓					
3	✓					
4	✓					Latitude 22° 0' 24" 21.8
5	✓					Longitude 54° 17' - 78
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
SE. 1/2 E.	1.088	1.20		37° 09' N.	37° 21' N.	15 N.	2° 53' E.	53° 45' W.	52° 19' W.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	✓		SE.	SW		On a day comes in with strong
2	✓					breeze. and passing 2000.
3	✓					On 3000 ft. strong Sal
4	✓					at 1000 ft.
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					Letter post. Light breeze. from
10	✓					North to the east and passing
11	✓					at 1000 ft. the lower
12	✓					of top 5. 5000 ft. and track
1	✓					at 1000 ft.
2	✓					
3	✓					
4	✓					
5	✓					Latitude 22° 0' 24" 21.8
6	✓					Longitude 54° 17' - 78
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
SE. 1/2 E.	1.088	1.20		37° 09' N.	37° 21' N.	15 N.	2° 53' E.	53° 45' W.	52° 19' W.

Ship "Cate" from Boston towards Cape Horn

October 16th 1842.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5		SE 1/4 S			Commenced with moderate
2	5					drizzle from North Eastward
3	4					at 2 am. Tacked Ship to
4	4					Eastward -
5	4					Lighter part of breeze
6	4					and fair weather -
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	5		SE 1/4 S			Light and fair weather
2	3					
3	4		SE 1/4 S			
4	4		SE 1/4 S			Latitude Ob 34. 28. 1
5	4					Longitude 51. 57. 11.
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE 1/4 S	35.	0° 30 S	18 E	35° 30 N	35° 25 N	5° N	0° 25 E	50° 15 W	50° 51 W

October 17th 1842.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		E 1/4 S			Commenced with fair weather
2	4					and the breeze all day long
3	4					and set by the wind
4	4		East.			
5	4					
6	4		SE 1/4 S			
7	4					
8	4		East			Under part, in clouds, light
9	4					and fair weather
10	4					
11	4					
12	4					
1	5		SE 1/4 S			
2	5					
3	5		SE 1/4 S			Latitude Ob 35° 14. 11
4	5					Longitude 50° 23. 11
5	5					
6	5					
7	5		SE 1/4 S			
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE 1/4 S	35	0° 30 S	18 E	35° 30 N	35° 25 N	5° N	0° 25 E	50° 15 W	50° 51 W

Ship: *Cato* of *London* 18th Nov 1842

Ship: *Cato* from *Porton* towards *Cape Town*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2		NE by E. SE			Commenced with light baffling
2	3		SE by E -			wind, and pleasant weather.
3	4					
4	5					at 11 AM. Landed Ship
5	6					
6	7					at 11 AM. Landed Ship
7	8					at 11 AM. Landed Ship
8	9					at 11 AM. Landed Ship
9	10		SE.			all drawing sail set.
10	11		SE by S. E. E.			
11	12					at 11 AM. Landed Ship
12	1		SE by S.			at 11 AM. Landed Ship
1	2					at 11 AM. Landed Ship
2	3					at 11 AM. Landed Ship
3	4					at 11 AM. Landed Ship
4	5					at 11 AM. Landed Ship
5	6					at 11 AM. Landed Ship
6	7					at 11 AM. Landed Ship
7	8					at 11 AM. Landed Ship
8	9					at 11 AM. Landed Ship
9	10					at 11 AM. Landed Ship
10	11					at 11 AM. Landed Ship
11	12					at 11 AM. Landed Ship

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E. 40.	107.	1° 23' S.	94.	34° 21' N.	34° 13' N.	15° W.	1° 58' E.	48° 40' W.	48° 40' W.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2		SE by E. SE.			Commenced with fresh breeze
2	3					and passing oblique
3	4					at 11 AM. Landed Ship
4	5		SE by E. SE.			at 11 AM. Landed Ship
5	6					at 11 AM. Landed Ship
6	7					at 11 AM. Landed Ship
7	8					at 11 AM. Landed Ship
8	9					at 11 AM. Landed Ship
9	10					at 11 AM. Landed Ship
10	11					at 11 AM. Landed Ship
11	12					at 11 AM. Landed Ship
12	1					at 11 AM. Landed Ship
1	2					at 11 AM. Landed Ship
2	3					at 11 AM. Landed Ship
3	4					at 11 AM. Landed Ship
4	5					at 11 AM. Landed Ship
5	6					at 11 AM. Landed Ship
6	7					at 11 AM. Landed Ship
7	8					at 11 AM. Landed Ship
8	9					at 11 AM. Landed Ship
9	10					at 11 AM. Landed Ship
10	11					at 11 AM. Landed Ship
11	12					at 11 AM. Landed Ship

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E. 40.	107.	1° 23' S.	94.	34° 21' N.	34° 13' N.	15° W.	1° 58' E.	48° 40' W.	48° 40' W.

Ship "Cati" from Boston towards Cape Cod.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	8		SE 1/2 E			Commences with squally
2	8					weather, with buffing mists.
3	8					
4	8					
5	5					
6	5					under a fog. fresh breeze
7	5		SE-			
8	5					rather fresh moderate
9	5					with rain.
10	5		SE-			
11	4	1				
12	4	1				
1	3					Trailing fog & gulf breeze.
2	3					
3	3					at 8 am. Saw a Water Spout.
4	3					
5	2					
6	4		SE W.			Latitude 31° 25' North
7	6					Longitude 44° 50' West
8	7					
9	4					
10	3					
11	3					
12	3					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE 1/2 E	101	1° 13 S	7 1/2	31° 44 N	31° 25 N	15° W.	2° 50 E	72° 38	44° 50

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		SE-			Commences with squally
2	4					weather, with some rain.
3	4					
4	4					Wind, variable
5	4					
6	4					at 2 am. Tacked Ship
7	4					
8	4		SE W.			At 3 am. Tack Ship to South,
9	4					At 8 am. do. do. to SE-
10	4					
11	4					
12	4					
1	4		SE-			Sailed from New Bedford
2	4					
3	4		SE 1/2 E			
4	4					Latitude 30° 18' North
5	4		SE-			Longitude 44° 00' West
6	4					
7	4		SE W.			
8	4					
9	4					
10	4					
11	4		SE 1/2 E			
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE 1/2 E	60	0° 55 S	25	30° 30 N	30° 18 N	1° W.	0° 29 E	44° 21 W	44° 00 W

Ship 'Cato' from London towards Cape Town.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		ENE	SE		Courses in with fine weather
2	3					and light breezes.
3	3					
4	3					
5	4		ENE	SE		Middle part, much the same.
6	4					
7	4					
8	4					
9	4					Latter part Squally & buff breeze.
10	4					
11	4					
12	4					Saw a <u>Bargue</u> on the Starboard
1	4					quarter.
2	4					
3	4					Gulf Shear + Petrel.
4	4					
5	4					Lallice. Ob. 00.00
6	4					Longue de p. chin 00.00.
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
ENE 91	0.32	N 85 E.		30° 50' N.	30	15° W. 1° 34 E.	23° 2' W.	0.	

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		ENE	SE		This day comes in with Squally
2	4					weather and buff wind.
3	4					
4	4					at 7 P.M. Back. Ship to
5	4					continuing.
6	4					
7	4		SE			
8	4					
9	4		ENE	SE		
10	4					From 12 to 1 P.M. part, Strong
11	4					breeze from Westward.
12	4					
1	4					
2	4					Strong fresh Petrel & Gulf Shear
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
ENE 91	1.45	22 E.		29° 32' N.	0.	15° W. 1° 25 E.	42° 6' W.	0.	

High Cuts from Whetton towards Cape Horn.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5					<i>Oct 24 1852.</i>
2	5					
3	5					Commenced with fresh breezes and squally
4	5					
5	5					
6	5					At 6 P.M. took in the Top 5 sails and mizen -
7	5					
8	5					
9	5					
10	5					At 6 P.M. took in the Top 5 sails and mizen -
11	5					At 8 A.M. took Top 5 Sails & mizen - main royal & 1st Gib
12	5					Lower part much the same. Petrels & gulls. Gulf Stream -
1	5					Latitude 37° 33' N
2	5					Longitude 42° 54' W
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
S 97° W	115	1340	W	27° 38' N	27° 33' N	15° W	0° 50'	42° 10' W	42° 50' W

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5					<i>Oct 25 1852.</i>
2	5					
3	5					Commenced with strong breeze from Eastward.
4	5					Supposed to be the N.E. Trade.
5	5					
6	5					fine weather and passing clouds
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	5					Lower part much the same.
2	5					Tryng fish and Petrels -
3	5					Latitude 37° 33' N
4	5					Longitude 42° 54' W
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
S 68° E	143	2° 22' S	E	25° 07' N	24° 55' N	12° W	0° 17'	42° 37' W	42° 54' W

Ship 'Cali' from Porten towards Cape Horn.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5		547	SE	56	Comes in with fine weather
2	5					and fresh breeze -
3	5					
4	5					
5	5					
6	5					At 5 P.M. set the Fore Royal -
7	5					At 10 P.M. set the after Royal -
8	5					
9	5					Latter part, strong breeze
10	5					and passing about 2 -
11	5					
12	5					
1	5		South	SE		Vanished 12 Point N.E. S.W.
2	5					Strong breeze
3	5					
4	5					Latitude Ob. 22° 49' North
5	5					Longitude by Chron. 43° 20' West
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5		547	East		

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
547	141	2° 20' S	146	22° 35' N	22° 49' N	15° 40' 19 E	42° 57' N	43° 20' W	

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5		547	SE	56	Comes in with good weather
2	5					and fresh breeze -
3	5					
4	5					
5	5					
6	5		552	SE		At drawing sail set by the
7	5					Wind.
8	5					
9	5					Latter part moderate & fine
10	5					weather.
11	5					Drying Fish -
12	5					
1	5					
2	5					
3	5					
4	5					
5	5		547	SE		Latitude, Ob. 22° 47' North
6	5					Longitude by Chron. 43° 20' West
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
527	98	1° 27' S	44	11° 0' N	11° 27' N	12 W	0° 45' E	42° 32' W	42° 45' W

"Ship" Cut from Boston towards Cape Cod

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		SSW.	East.		Continues with fine weather,
2	3					& moderate breeze and
3	3					calm -
4	3		South ESE.			
5	3					
6	3					
7	4		St. W. SSW.	E.		
8	4					
9	3		South ESE.			At 10 o'clock, Parker's Ship
10	3					
11	3		St. E. Eby S.			Latter part cloudy and baffling
12	3					
1	4					
2	4					
3	4					
4	4					
5	4		South ESE			
6	4					
7	4		St. W. SSW.			
8	4					
9	3		St. W. SE.			
10	3					
11	3		St. W. SSW.			
12	3					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
E 19 ^s 69	1005.	^E 23	20° 22' N	0	12° 10'	0° 19' E	42° 51'	43° 20'	

II.	K.	H.K.	Courses.	Winds	L.W.	Remarks.
1	3					October 20. 1894 22
2	2					Commeres met oblique weather
3	2					and baffling winds.
4	2					
5	1					Oct 21. Sun. Jack & Smith & Son.
6	1					
7	2					Oct 22. Sun. Jack & Smith & Son.
8	2					
9	4					Oct 23. Sun. Jack & Smith & Son.
10	2					
11	2					At. Wind day. Jack & Smith & Son.
12	2					Better part. Light baffling
1	2					wind and oblique weather.
2	2					
3	3					Some light
4	3					Latitude 41° 20' N. North
5	3					
6	3					Longitude 10° 10' West
7	3					
8	3					Clear and bright Sun.
9	3					
10	3					
11	3					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 15 S	30	0° 07' N	28	20° 15' N	20° 03' N	12 W	0° 50' E	41° 30'	42° 10'

Ship "Corte" from S. ten towards Cape Horn.

Il.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		SSW	6		Commenced with moderate weather
2	3					and baffling wind.
3	3					
4	3					
5	3					clouded part, steady breeze
6	3					in coming to the Eastward.
7	3					
8	3					
9	3					latter part, much the same.
10	3					
11	3					
12	3					
1	3		SSW	SE 6 E		
2	3					
3	3					Latitude Oct 18° 40'
4	3					Longitude Feb 42° 14'
5	3					
6	3		South	6 E		
7	4					
8	4					
9	4					
10	4					
11	4		SE 6 E	SE 6 E		
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
S 12 E	85	1° 23'	S 28 E	18° 40' N	18° 40' N	14 W	0° 19' E	41° 55'	42° 14'

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5		SE 6 E	SE 6 E		Commenced with good weather
2	5					and steady breeze.
3	5					
4	5					
5	5					At 5.00 took in the log and
6	5					and flying lead.
7	5					
8	5					
9	5					
10	5		South			At 7.00 took in log and
11	5					flying lead.
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
S 15 E	105	1° 41'	S 27 E	18° 39' N	18° 39' N	14 W	1° 28' E	41° 56'	40°

Ship *Cato* from *Boston* towards *Cape Horn*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		SE by E	SE by E		Commenced with the N along
2	4					weather, and fresh breezes
3	4					At 4 P.M. Squally, to 15 in the
4	4					regal air flying S.W.
5	4					At 5 P.M. took in Top Sail.
6	4					and closed down the Top Sails
7	4					at the same time, to put P.M.
8	4					At 6 P.M. Hoisted the Top Sail
9	4					and went a new S.W.
10	4		SE by E	SE by E		All sail past & Squally, with rain
11	3		SE by W	SE by E		Under part, raising thick weather
12	3		SE by W	SE		Rose to and flying S.W.
1	5		SE by W	SE		
2	5		SE by W	SE		
3	5		SE by W	SE		
4	5		SE by W	SE		
5	5		SE by W	SE		
6	5		SE by W	SE		
7	5		SE by W	SE		
8	5		SE by W	SE		
9	5		SE by W	SE		
10	5		SE by W	SE		
11	5		SE by W	SE		
12	5		SE by W	SE		

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
516 E	94	1° 30 S	28	15° 26 N	0	11° W	0° 27 E	41 12	0

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		SE by E	SE by E		Commenced with thick & heavy
2	3					weather, and moderate breeze
3	3					At 4 P.M. Squally, wind changed
4	3		SE	SE by W		to S by W, and took in S. P.
5	3		SE by S	SE by W		At 5 P.M. Wind changed to S by E.
6	2		SE by S	SE by W		Took in S. P.
7	2		SE by S	SE by W		At 6 P.M. Had a heavy shower of
8	2		SE by S	SE by W		rain, spread the awnings and
9	2		SE by S	SE by W		caught 300 lbs of water.
10	2		SE by S	SE by W		Middle part of rain, & moderate
11	2		SE by S	SE by W		Under part of rain, & moderate
12	2		SE by S	SE by W		Under part of rain, & moderate
1	2		SE by S	SE by W		Under part of rain, & moderate
2	2		SE by S	SE by W		Under part of rain, & moderate
3	2		SE by S	SE by W		Under part of rain, & moderate
4	2		SE by S	SE by W		Under part of rain, & moderate
5	2		SE by S	SE by W		Under part of rain, & moderate
6	2		SE by S	SE by W		Under part of rain, & moderate
7	2		SE by S	SE by W		Under part of rain, & moderate
8	2		SE by S	SE by W		Under part of rain, & moderate
9	2		SE by S	SE by W		Under part of rain, & moderate
10	2		SE by S	SE by W		Under part of rain, & moderate
11	2		SE by S	SE by W		Under part of rain, & moderate
12	2		SE by S	SE by W		Under part of rain, & moderate

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
512 E	62	1° 00 S	23	14° 26 N	14° 45 N	11° W	0° 15 E	41° 08	42° 34

Sailing (etc) from <i>London</i> towards <i>Capetown</i>										
H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.	November 3 ^d 1842.			
1	2		SE	SE		Commencing with light breeze from the	South East - air otherwise calm.			
2	2									
3	2									
4	2		SE	SE		At 1 st saw a <i>Shearwater</i> on the				
5	2		SE	SE		barren beam - steering S. West.				
6	2									
7	2									
8	2									
9	2					At 3 P.M. took a Trip -				
10	2									
11	2					middle part best - breeze & clear				
12	2					weather - -				
1	2						Latter part much the same			
2	2									
3	2									
4	2									
5	2					Latitude 15° 00' N				
6	2					Longitude 42° 04' W.				
7	2									
8	2					(Portuguese claim of war)				
9	2									
10	2									
11	2									
12	2									
Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.	
E 24° N	39	0° 15' N	35	15° 00' N	15° 00' N	10° W	0° 35' E	41° 59'	42° 04'	W

Sailing (etc) from <i>London</i> towards <i>Capetown</i>										
H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.	November 4 th 1842.			
1	2		East	SE		Commencing with light wind and	clear weather.			
2	2									
3	2									
4	2									
5	2									
6	2									
7	2									
8	2									
9	2									
10	2									
11	2									
12	2									
1	2		SE	SE			Middle & latter part much the same.			
2	2									
3	2									
4	2					Latitude 15° 37' North				
5	2					Longitude 41° 30' West.				
6	2									
7	2									
8	2									
9	2									
10	2									
11	2									
12	2									
1	2		SE	SE			(Portuguese claim of war)			
2	2									
3	2									
4	2									
5	2									
6	2									
7	2									
8	2									
9	2									
10	2									
11	2									
12	2									
Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.	
E 25° N	30	0° 15' N	27	15° 19' N	15° 37' N	10° W	0° 27' E	41° 37'	41° 30'	W

Ship C. to. from Boston - towards Cape Horn.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3					November 5th 1842 29
2	3					
3	3					Commenced with light wind and clear weather.
4	3					
5	3					
6	3					At midnight lost track of
7	2					ground clear.
8	2					
9	3					
10	3					At 10 A.M. lost sight.
11	3					
12	3					Later part clear weather & gentle gale from S.E.
1	4					
2	4					
3	4					
4	4					Latitude 0° 16' 31" North
5	4					Longitude 40 35 West
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE 1/4 E	7 1/2	0° 20' N	1/2	16° 27' N	16° 31' N	1/2 W	0° 22' E	40° 35'	40° 26' W

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3					November 8th 1842 30
2	3					Commenced with light wind & clear weather all day & night.
3	3					
4	3					At 11 A.M. saw a Brig to the S.W.
5	3					At 12 A.M. saw a Brig to the S.W.
6	3					At 12 A.M. saw a Brig to the S.W.
7	3					At 12 A.M. saw a Brig to the S.W.
8	3					At 12 A.M. saw a Brig to the S.W.
9	3					At 12 A.M. saw a Brig to the S.W.
10	3					At 12 A.M. saw a Brig to the S.W.
11	3					At 12 A.M. saw a Brig to the S.W.
12	3					At 12 A.M. saw a Brig to the S.W.
1	4					Latitude 15° 00' N
2	4					Longitude 40° 35' W
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE 1/4 E	88	1° 27' S	1/2	15° 00' N	15° 00' N	1/2 W	0° 22' E	40° 35'	40° 26' W

Ship *at* *from* *to* *towards Cape Town.*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1		SSE	East.		Commence with fine breeze from the
2						Eastward and clear weather.
3						
4						
5						At 2 Am. took in the Royal
6						At 2 Am. took in the Royal
7						At 2 Am. took in the Royal
8						At 2 Am. took in the Royal
9						At 2 Am. took in the Royal
10						At 2 Am. took in the Royal
11						At 2 Am. took in the Royal
12						At 2 Am. took in the Royal
1						At 2 Am. took in the Royal
2						At 2 Am. took in the Royal
3						At 2 Am. took in the Royal
4						At 2 Am. took in the Royal
5						At 2 Am. took in the Royal
6						At 2 Am. took in the Royal
7						At 2 Am. took in the Royal
8						At 2 Am. took in the Royal
9						At 2 Am. took in the Royal
10						At 2 Am. took in the Royal
11						At 2 Am. took in the Royal
12						At 2 Am. took in the Royal

1.148

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
SSE	120	1.345	74	13.27N	13.27N	8W	74	39.20	39.46

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		SSE	East.		Commence with fine breeze from the
2	4					Eastward and clear weather.
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

1	4		SSE	East.		Commence with fine breeze from the
2	4					Eastward and clear weather.
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
SSE	120	1.325	74	11.44N	11.55N	11E	74	38.28	38.48

Ship *Cato* from *Boston* towards *Cape Horn*.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4					October 3 rd 1842. 33
2	4					Sept. 8 by 12 N. The day commences with strong
3	4					breeze from Eastward, and clear
4	4					weather.
5	4					
6	4	1				
7	4	1	SE. ENE.			Middle part, fresh gales and passing
8	4	1				clear.
9	4	1				
10	5					At 2 am. Took in one + alligan Sept 8 and
11	5					also 200 lbs of the same Sept 8. Put out
12	5					700 lbs of the same Sept 8.
1	5					Sept 8 N by E. Latter part fresh breezes and clear
2	4					weather. Current 2 miles per hour
3	4	1				
4	4	1				Latitude 46° 10' 42" North
5	4	1				Longitude 37° 38' West
6	4	1				
7	4	1	SE. ENE.			
8	4	1				Sept 8 S by N. Flying Fish.
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 38 S 115	1 11 5	4'	40'	40° 44' N	40° 42' N	RV	1 30 E	37° 30'	37° 38' 50'

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5					November 10 th 1842. 34.
2	5					Comes in with strong breeze, clear weather
3	5					called by part, squallier. At 2 am.
4	5					in breeze + surge top 10 miles - at least 10 miles
5	4	1				at 6 to 8 miles. Wind
6	4	1	SE. East.			At 7. 50 Set the flying fish + main
7	4	1				Latter part moderate + baffling
8	4	1				Current 4 miles. Weather
9	4	1				
10	4	1				
11	4	1				
12	4	1				Flying Fish.
1	4					
2	4					
3	4					
4	4					
5	3					Latitude 49° 25' - 40°
6	3					Longitude 37° 26' West
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
S 48 E	88	1 33 5	39'	49° 14' N.	49° 27' N.		1 30 E	37° 30'	37° 38' 50'

Trip Date from *Boston* towards *Cape Horn*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2		S. Eby	Eby	st.	This day commences with light wind
2	2					clear weather
3	2					At 2 P.M. set the fore royal.
4	3					At 7.50 Took in the fore d. & f. sail
5	4		S. W.	E.		At mid night, with strong breeze and squally
6	4					Took in the fore d. & f. sail
7	5		N. E.	East		At 1 P.M. set the fore S. sail
8	4					At 6.50 Took in the fore d. & f. sail
9	4					At 2 A.M. Set the fore S. sail
10	4					At 7.30 Took in the fore d. & f. sail
11	4					At 7.30 Took in the fore d. & f. sail
12	5					At 8.00 Took in the fore d. & f. sail
1	5					At 8.00 Took in the fore d. & f. sail
2	4					At 8.00 Took in the fore d. & f. sail
3	3					At 8.00 Took in the fore d. & f. sail
4	3					At 8.00 Took in the fore d. & f. sail
5	3					At 8.00 Took in the fore d. & f. sail
6	3					At 8.00 Took in the fore d. & f. sail
7	5		S. W.	S. E.		At 8.00 Took in the fore d. & f. sail
8	3					At 8.00 Took in the fore d. & f. sail
9	2					At 8.00 Took in the fore d. & f. sail
10	2					At 8.00 Took in the fore d. & f. sail
11	3					At 8.00 Took in the fore d. & f. sail
12	3					At 8.00 Took in the fore d. & f. sail

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
5258	77	1° 09'	33	8° 14' N	8° 19' N	6 1/2	0° 33'	34° 53'	0

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2		N. E.	East		This day comes in with thick squally
2	2					weather - At 1 P.M. Took in the fore
3	2					S. sail - At 1.30 S. & then
4	2					again - At 8.50 Took them in & at
5	2					7.50 Took them in again - At 2.00
6	2					part squally with hard rain - At 2.00
7	1					cleared up the fore S. sail and the fore d. & f. sail
8	1					in a squall - At 3.50 Set them again & at
9	2					6.50 the fore S. sail - At 7.00 Set flying jib
10	2					and main royal - Latter part, squally
11	1					weather.
12	1					
1	3					
2	3					
3	3					
4	2					
5	2					
6	2					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by G.
5246	18	0° 54'	34	7° 22' N	7° 41' N	1 1/2	0° 28'	35° 21'	0

Ship "Cato" from Boston towards Cape Horn

H.	K.	H.K.	Courses.	Winds.	L.V.	Remarks.
1	2		S 6 E	East		Commenced with light wind and squalls of rain. - At 3.30 P.M. Tack'd to Eastward.
2	2					
3	3					At 3.30 Tack'd to Southward again -
4	1		S 78 E	So-		At 4.50 Tack'd to Northward flying S.E. & Top 5 Sails
5	2					At 8.00 Set the Top 5 Sails - at 10.00 Tack'd in the Top 5 Sails, & set them again -
6	3					At 11.50 Tack'd them in, and set them again
7	4					Middle part fore. & mizzen & mizzenmast
8	4					At 1.30 A.M. Tack'd in the 5 sails & 3 foremast
9	3					clews it up & furl'd it - At 5.50 S. & 1
10	4		South E 1 E			the fore and main Top 5 sails - At 7.50
11	5		S 78 E			Went a new mile in top sail & set it
12	5		S 6 E			Bottom part of main & mizzen & 1
1	3		S 6 E			see them.
2	4		S 6 E			
3	3		S 6 E			
4	4		S 6 E			
5	3		S 6 E			
6	4		S 6 E			
7	2		S 6 E			
8	3		S 6 E			
9	4		S 6 E			
10	3		S 6 E			
11	3		S 6 E			
12	4		S 6 E			

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
5266	11	0°54'S	27	5°20'N	5°14'N	6°N	0°27'E	31°00'	3

H.	K.	H.K.	Courses.	Winds.	L.V.	Remarks.
1	1		S 6 E	East		Commenced with light baffling wind & squalls appeared. - At 1 P.M. Tack'd
2	3		S 6 E	East		Tack'd to East - chud of the 1st sail & set them again - at 3.50 Tack'd to South - at 4.50
3	2		S 6 E	East		Tack'd to N.E. - at the main & 1st sail
4	2		S 6 E	East		At 3.30 Tack'd to South - at 11.30 Tack'd to N.E.
5	2		S 6 E	East		At 11.30 Tack'd to N.E. - at 1 P.M. Tack'd
6	3		S 6 E	East		At 1 P.M. Tack'd to N.E. - chud of the Top 5 Sails
7	3		S 6 E	East		and set them again - At 7.50 Tack'd to N.E.
8	3		S 6 E	East		At 9.50 Tack'd to N.E. - at 10.50
9	3		S 6 E	East		At 10.30 Tack'd to S.W. - At 11.30
10	3		S 6 E	East		Tack'd to N.E. - At 12.00 Tack'd to S.W.
11	3		S 6 E	East		and the bottom part of the day - Squalls of rain and baffling -
12	4		S 6 E	East		
1	1		S 6 E	East		
2	1		S 6 E	East		
3	1		S 6 E	East		
4	1		S 6 E	East		
5	1		S 6 E	East		
6	1		S 6 E	East		
7	1		S 6 E	East		
8	2		S 6 E	East		
9	2		S 6 E	East		
10	2		S 6 E	East		
11	2		S 6 E	East		
12	2		S 6 E	East		

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
6205	25	0°25'S	22	5°02'N	5°02'N	6°N	0°25'E	31°00'	3

Ship "Cato" from Foster towards Cape Horn.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		Ob. S. by E.			Commence with rain, the H
2	3					matte and ruffling wind
3	4					
4	2					
5	2					At 3.30 P.M. wind shifted to North
6	1					and took in the air.
7	1					
8	1					
9	1		S. by E. by N.			Wind east. At 10 P.M. + clear
10	1					At 10 P.M. wind N. Eastward
11	1					
12	1		S. by E. by N.			Latter part, light winds & ruffling
1	1		Calm.			At 3 Am. More Ship
2	1					At 11.30 - Tacked to E. by N. by E.
3	1					Porpoise, Flying Fish & P. 1/2
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 39 S	19	0° 12 5	7 1/2	50° 50' N	50	6° W	0° 14 6	35° 30'	2

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1		Ob. S. by E.			Commence with wind like breeze & squally
2	1					with an abundance of rain - At 7 P.M.
3	1		S. by E. S. by E.			Set royal & fly in air - At 3.30 Took in royal
4	1					& flying gill. & tacked Ship to Southward At 4.30
5	1		S. by E. S. by E.			Set royal & fly in air. At 6.0 Took then in
6	1					At 9.0 Took in main top. G. sail & spantle -
7	1					At 12.00 night. Set spantle & tack. Ship.
8	1					all in the part, rain & thick. At 6.00
9	1					Set main top. G. sail royal & fly in air
10	1					
11	1					
12	1					
1	1		S. by E. S. by E.			Latter part fine weather & moderate
2	1					At 6 Current 4 Wellily & in last
3	1					Porpoise and Albion
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
S 10 W	21	0° 41 5	7 1/2	50° 10' N	50	5° 30' W	0° 42 8	34° 48'	11 1/2

Ship's Cruise from Boston towards Cape Horn

II.	K.	H.R.	Courses.	Winds.	L.V.	Remarks.
1	2		S. E. by S.			Commence with light wind & clear. At 3.30
2	2					clouds not abundant. Fair. With a dry S.W.
3	2					By 6.0 get a top 9.00. At 4.00. At 1.00
4	2		South. E. by E.			By 6.0 get a top 9.00. At 4.00. At 1.00
5	2					By 6.0 get a top 9.00. At 4.00. At 1.00
6	2		South. E. by E.			By 6.0 get a top 9.00. At 4.00. At 1.00
7	2					By 6.0 get a top 9.00. At 4.00. At 1.00
8	2					By 6.0 get a top 9.00. At 4.00. At 1.00
9	2					By 6.0 get a top 9.00. At 4.00. At 1.00
10	3					At 6.00. At 12.00. At 12.00. At 12.00
11	2					At 6.00. At 12.00. At 12.00. At 12.00
12	1					All latter part moderate squalls. Clear weather
1	3					
2	2					
3	2					Current. 23 miles. N. E.
4	2					
5	2					
6	2					
7	2					
8	2					Latitude 31 North
9	2					Longitude 170 West
10	2					
11	2					
12	2					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
E 29 S	29	0° 14' 8"	23	5° 25' N	5° 40' N	15'	0° 25' E	34° 35'	34° 1'

II.	K.	H.R.	Courses.	Winds.	L.V.	Remarks.
1	2		S. E. East			Commence with light wind & squally
2	2					At 5.00. At 12.00. At 12.00. At 12.00
3	2		South. E. by E.			At 5.00. At 12.00. At 12.00. At 12.00
4	2					At 5.00. At 12.00. At 12.00. At 12.00
5	2		South. E. by E.			At 5.00. At 12.00. At 12.00. At 12.00
6	2					At 5.00. At 12.00. At 12.00. At 12.00
7	2		South. E. by E.			At 5.00. At 12.00. At 12.00. At 12.00
8	2					At 5.00. At 12.00. At 12.00. At 12.00
9	2		South. E. by E.			At 5.00. At 12.00. At 12.00. At 12.00
10	2					At 5.00. At 12.00. At 12.00. At 12.00
11	2		South. E. by E.			At 5.00. At 12.00. At 12.00. At 12.00
12	2					At 5.00. At 12.00. At 12.00. At 12.00
1	3					At 5.00. At 12.00. At 12.00. At 12.00
2	2					At 5.00. At 12.00. At 12.00. At 12.00
3	2					At 5.00. At 12.00. At 12.00. At 12.00
4	2					At 5.00. At 12.00. At 12.00. At 12.00
5	2					At 5.00. At 12.00. At 12.00. At 12.00
6	2					At 5.00. At 12.00. At 12.00. At 12.00
7	2					At 5.00. At 12.00. At 12.00. At 12.00
8	2					At 5.00. At 12.00. At 12.00. At 12.00
9	2					At 5.00. At 12.00. At 12.00. At 12.00
10	2					At 5.00. At 12.00. At 12.00. At 12.00
11	2					At 5.00. At 12.00. At 12.00. At 12.00
12	2					At 5.00. At 12.00. At 12.00. At 12.00

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
S 27 E	49	1° 01' 5"	31	1° 29' N	5° 06' N	15'	0° 31' E	33° 45'	33° 30'

Ship "Cato" from Boston towards Cape Horn

H.	K.	H.K.	Courses	Winds	L.W.	Remarks.
1						Commence with clear weather
2						and moderate breeze - At 2. P.M. equally
3						tooth in the light sail - At 3.30 P.M.
4						the light sail - middle part light
5						trindy and clear - At 4 P.M.
6						equally appearance slight wind
7						At 5.30. Tack to east
8						At 11.30 P.M. Eastward
9						All latter part, moderate with
10						occasional rain squally.
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Calm

266 E 286 E

6 N E 2 E

At 11.30 P.M. E 1/2 E

East 2 E

Latitude 40° - 00' 00"

Longitude 71° 00' 00"

Course	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
<i>266 E</i>	<i>195</i>	<i>1</i>	<i>1</i>	<i>47 N</i>	<i>5</i>	<i>6 W</i>	<i>0 21 E</i>	<i>33 09 W</i>	<i>0</i>

H.	K.	H.K.	Courses	Winds	L.W.	Remarks.
1						Commence with fine breeze.
2						cloudy weather all draw of sail out
3						to the wind - At 10 P.M. Tack to Ship
4						to the light sail At 11.30
5						and then again, middle part fresh
6						breeze At 11.30 P.M. Head in sight
7						in the water, steering E - all day
8						part, light breeze fair weather
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
<i>266 E</i>	<i>235</i>	<i>38 E</i>	<i>4</i>	<i>24 N</i>	<i>5 00</i>	<i>0</i>	<i>0 23 E</i>	<i>32 11</i>	<i>32 11</i>

Ship "Cato" from London

towards Cape Horn

H. K. H.K. Courses. Winds. L.W. Remarks. November 21st 1842

1	2	1	SE East			Commences with moderate breeze
2	2	1				and clear weather, sea running
3	2	1				set by the wind, at 4 P.M. - 5 P.M.
4	2	1	SE East			signified with an American whaler
5	2	1				at 7 P.M. took a light sail, a square with
6	2	1				heavy rain - at 5 P.M. calm - haul of the
7	2	1	SE East			can be brought up the specter, at 11 P.M.
8	0	1				the ship above mentioned, or rather
9	0	1				between 4 miles distant - at 1 P.M. 2 P.M.
10	1	1				under - 10 P.M. 11 P.M. - peak near the
11	2	1				boat above said - with a officer and 5
12	2	1				persons to be the ship. <u>Two</u> cany Sag Harbor
1	2	1	SE East			Captain Sibley - 41 Boys on board - home - 1842
2	2	1				
3	2	1				
4	2	1				
5	2	1	SE East			Letter post clear with the fair breeze
6	2	1	SE East			Current N by E - 20 miles
7	2	1				
8	2	1				
9	4	1				Latitude 44° 32' North
10	4	1				
11	4	1				Longitude 105° 55' West
12	4	1				

Course	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
S 22 E	49	0° 45' S	10	4° 15' N	4° 32' N	17° N	0° 46'	32° 0'	31° 5'

H. K. H.K. Courses. Winds. L.W. Remarks. November 22nd 1842

1	2	1	SE East			Commences with fair breeze and
2	2	1				passing, clear sky.
3	2	1	SE East			At 10 P.M. with a light breeze.
4	2	1				
5	2	1				
6	2	1				
7	2	1	SE East			At 1 P.M. heavy showers of rain, with
8	2	1				fresh squalls. Letter post fair
9	2	1				with a moderate breeze ship 1000
10	2	1				at 10 P.M. 11 P.M. 12 P.M.
11	2	1				
12	2	1				
1	2	1	SE East			At 1 P.M. 2 P.M. 3 P.M. 4 P.M.
2	2	1				
3	2	1				
4	2	1				
5	2	1				
6	2	1				
7	2	1				
8	2	1				
9	2	1				
10	2	1				
11	2	1				
12	2	1				

Course	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
S 14 W	59	0° 59' S	10	3° 33' N	3° 47' N	14° N	5° 02' W	3° 57'	32° 05'

Ship Boat from Boston towards Cape Town.

II.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1						October 23 rd 1842
2						Commences with fine weather and
3						light winds.
4						At 1. P.M. Tackled to S.E.
5						At 7.30 A.M. to S.W. South by E.
6						At 4. P.M. to S.W. at 1 P.M.
7						At 6 P.M. Tackled to light winds
8						in a squall and then again -
9						At 10 P.M. Tackled to South by E.
10						At 1 P.M. Tackled to S.W. with heavy rain
11						went on to N.W.
12						So close for day
1						Shower & flying fish -
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 58	29.	S 03.	39	344	9	10W	039E	31029	0

II.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
						November 24 th 1842
1						Commences with light winds and
2						fine weather.
3						At 1 P.M. Tackled to S.W. at 1 P.M.
4						At 1 P.M. Tackled to S.W. at 1 P.M.
5						At 1 P.M. Tackled to S.W. at 1 P.M.
6						At 1 P.M. Tackled to S.W. at 1 P.M.
7						At 1 P.M. Tackled to S.W. at 1 P.M.
8						At 1 P.M. Tackled to S.W. at 1 P.M.
9						At 1 P.M. Tackled to S.W. at 1 P.M.
10						At 1 P.M. Tackled to S.W. at 1 P.M.
11						At 1 P.M. Tackled to S.W. at 1 P.M.
12						At 1 P.M. Tackled to S.W. at 1 P.M.
1						At 1 P.M. Tackled to S.W. at 1 P.M.
2						At 1 P.M. Tackled to S.W. at 1 P.M.
3						At 1 P.M. Tackled to S.W. at 1 P.M.
4						At 1 P.M. Tackled to S.W. at 1 P.M.
5						At 1 P.M. Tackled to S.W. at 1 P.M.
6						At 1 P.M. Tackled to S.W. at 1 P.M.
7						At 1 P.M. Tackled to S.W. at 1 P.M.
8						At 1 P.M. Tackled to S.W. at 1 P.M.
9						At 1 P.M. Tackled to S.W. at 1 P.M.
10						At 1 P.M. Tackled to S.W. at 1 P.M.
11						At 1 P.M. Tackled to S.W. at 1 P.M.
12						At 1 P.M. Tackled to S.W. at 1 P.M.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 58	45	S 04	30	408	4037	157	030E	3059	3103

Drift from *Porto Rico* towards *ape* *1842*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3					<i>16 miles S. 7. 1842. 1842.</i>
2	3					
3	2					
4	2					
5	2					
6	4					
7	4					
8	2					
9	2					
10	} <i>Calm</i>					
11						
12						
1						
2						
3						
4						
5						
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>E 12 S 26</i>	<i>0.055</i>	<i>5</i>	<i>4</i>	<i>32</i>	<i>44</i>	<i>14</i>	<i>0.55 E</i>	<i>37.04</i>	<i>37.04</i>

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1					
2	1					
3	2					
4	2					
5	2					
6	2					
7	3					
8	2					
9	2					
10	2					
11	2					
12	2					
1	1					
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>E 12 S 26</i>	<i>0.020</i>	<i>5</i>	<i>4</i>	<i>47</i>	<i>45</i>	<i>14</i>	<i>0.55 E</i>	<i>37.04</i>	<i>37.04</i>

Ship *from* *S. to N. towards* *open sea*

11.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2					First part fine weather and light breeze.
2						
3						
4						
5						At 4 P.M. altered Ship
6						
7						At 6 P.M. altered Ship
8						
9						At 12 M. altered Ship. Tacks 7 ft
10						to 10 in light sail
11						At 7 P.M. altered Ship. Tacks 7 ft
12						to 10 in light sail
1						At 7 P.M. altered Ship. Tacks 7 ft
2						At 10 P.M. altered Ship. Tacks 7 ft
3						At 1 P.M. altered Ship. Tacks 7 ft
4						At 4 P.M. altered Ship. Tacks 7 ft
5						At 7 P.M. altered Ship. Tacks 7 ft
6						At 10 P.M. altered Ship. Tacks 7 ft
7						At 1 P.M. altered Ship. Tacks 7 ft
8						At 4 P.M. altered Ship. Tacks 7 ft
9						At 7 P.M. altered Ship. Tacks 7 ft
10						At 10 P.M. altered Ship. Tacks 7 ft
11						At 1 P.M. altered Ship. Tacks 7 ft
12						At 4 P.M. altered Ship. Tacks 7 ft

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
6° 00'	45	5° 15'	7°	4° 30' 10"	4° 44' 10"	7° 10'	0° 42' 0"	29° 58'	30° 01'

11.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2					Comer as with full breeze from
2						at 10 P.M. altered Ship. Tacks 7 ft
3						At 1 P.M. altered Ship. Tacks 7 ft
4						At 4 P.M. altered Ship. Tacks 7 ft
5						At 7 P.M. altered Ship. Tacks 7 ft
6						At 10 P.M. altered Ship. Tacks 7 ft
7						At 1 P.M. altered Ship. Tacks 7 ft
8						At 4 P.M. altered Ship. Tacks 7 ft
9						At 7 P.M. altered Ship. Tacks 7 ft
10						At 10 P.M. altered Ship. Tacks 7 ft
11						At 1 P.M. altered Ship. Tacks 7 ft
12						At 4 P.M. altered Ship. Tacks 7 ft
1						At 7 P.M. altered Ship. Tacks 7 ft
2						At 10 P.M. altered Ship. Tacks 7 ft
3						At 1 P.M. altered Ship. Tacks 7 ft
4						At 4 P.M. altered Ship. Tacks 7 ft
5						At 7 P.M. altered Ship. Tacks 7 ft
6						At 10 P.M. altered Ship. Tacks 7 ft
7						At 1 P.M. altered Ship. Tacks 7 ft
8						At 4 P.M. altered Ship. Tacks 7 ft
9						At 7 P.M. altered Ship. Tacks 7 ft
10						At 10 P.M. altered Ship. Tacks 7 ft
11						At 1 P.M. altered Ship. Tacks 7 ft
12						At 4 P.M. altered Ship. Tacks 7 ft

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
6° 30'	30	0° 20' 5"	27	4° 30' 10"	4° 43' 10"	7° 10'	0° 27' 0"	29° 34'	29° 50'

Ship *Cato* from *Porto* towards *Cape Town*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1		by E	By		Commenced with rainy weather
2	1					and all sails at sail set, etc.
3	2					At 1 P.M. sailed to S. E.
4	2					At 9 P.M. in sight of 1 ship
5	3					At 10 30 P.M. saw small boat
6	2					in top. Sailed & parted.
7	3					middle part, fine breeze & clear
8	3					weather, - at 1 P.M. set top S.
9	2					at 1 P.M. sailed. At 4 P.M. in sight
10	3					and flying off - as before. Heat,
11	3					fine breeze and clear weather.
12	3					At 1 P.M. current 1 mile -
1	2					Porter, Gopher, Shark, Bunter,
2	2					all over, - flying fish -
3	3					
4	3					
5	3					
6	3					
7	4					
8	5					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 165	43	0.115	E	41	4° 12' N	4° 04' N	7° 0'	0° 45' E	29° 00'

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		by E	By		End of the day, rain & waves
2	3					and squally. At 1 P.M. made a
3	3					sail on the weather bow, which proved
4	3					to be English. Cargo (Chalcey)
5	4					Sailed from Monte Ved to come
6	4					to Falmouth for Orders. At 4 P.M.
7	4					boarded her with 4 men & ascended her
8	5					she had the wind & weather she reported
9	4					raising the wind from E. to S. E.
10	4					strong breezes and clear weather, to night
11	4					the S. E. breeze, which she left the day
12	4					morning, and a severe sea. Staid down
1	5					and on the line. At 8 P.M. in sight of
2	5					sail. At 1 P.M. then, middle
3	4					latter part, squally, with about 100 fathoms
4	4					trunk & more sail as occasion required.
5	5					
6	4					
7	4					
8	4					
9	5					
10	5					
11	5					
12	2					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
S 27 E	97	12.65	N	3	2° 58' N	0	8° 0'	0° 15' E	29° 15'

Ship/ Cat from *Dorchester* towards *Cape Horn*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3					December 3 rd 1842. 57
2	2		NE at 10			Commenced with fine breeze
3	2					and clearing weather—
4	2					
5	2		SE by E			At 2 P.M. saw a Ship to
6	2					At 4 P.M. saw a Ship to
7	1		SE by E			At 10 P.M. saw a Ship to
8	1					
9	2		SE by E			At 10 P.M. saw a Ship to
10	2					At 1 P.M. saw a Ship to
11	2					At 1 P.M. saw a Ship to
12	2					At 1 P.M. saw a Ship to
1	2		SE by E			At 1 P.M. saw a Ship to
2	2					At 1 P.M. saw a Ship to
3	2					At 1 P.M. saw a Ship to
4	2					At 1 P.M. saw a Ship to
5	2					At 1 P.M. saw a Ship to
6	2					At 1 P.M. saw a Ship to
7	3					At 1 P.M. saw a Ship to
8	3					At 1 P.M. saw a Ship to
9	2					At 1 P.M. saw a Ship to
10	2					At 1 P.M. saw a Ship to
11	2					At 1 P.M. saw a Ship to
12	3					At 1 P.M. saw a Ship to

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
S 33 E	44	0° 37 S	24	3° 55 N	0	0	0° 24 W	27° 47	27° 33

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3		SE			December 4 th 1842.
2	3					Commenced with fine breeze
3	3					and showers of rain.
4	3					At 2 P.M. saw a Ship to
5	3					At 2 P.M. saw a Ship to
6	3					At 2 P.M. saw a Ship to
7	2		SE by E			At 2 P.M. saw a Ship to
8	2					At 2 P.M. saw a Ship to
9	2					At 2 P.M. saw a Ship to
10	2					At 2 P.M. saw a Ship to
11	1					At 2 P.M. saw a Ship to
12	2					At 2 P.M. saw a Ship to
1	2		SE by E			At 2 P.M. saw a Ship to
2	2					At 2 P.M. saw a Ship to
3	2					At 2 P.M. saw a Ship to
4	2					At 2 P.M. saw a Ship to
5	2					At 2 P.M. saw a Ship to
6	2					At 2 P.M. saw a Ship to
7	2					At 2 P.M. saw a Ship to
8	3					At 2 P.M. saw a Ship to
9	2					At 2 P.M. saw a Ship to
10	1					At 2 P.M. saw a Ship to
11	2					At 2 P.M. saw a Ship to
12	4					At 2 P.M. saw a Ship to

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
South	27	0° 27 S	0	3° 08 N	3° 26 N	0	0	27° 33	27° 47

Ship "Cato" from Boston towards Cape Horn

December 5th 1842. 50

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		By S. by E.			First part of this day good weather
2	3					and gentle breeze, from S. E.
3	3					
4	4					
5	3					All drawing sail set by the wind
6	3					
7	1	1	By S. by E.			At 11 P.M. Tacked Ship to S. by E.
8	9					
9	1					At 5 A.M. Saw an American
10	2					Brig Steamer, to E. -
11	1					
12	1					At 6.30 Tacked Ship to E.
1	1					
2	3					All latter part, moderate, & cloudy
3	3					weather. - At 12 M. Tacked
4	3					
5	3					Ship to S. by E.
6	2					Flying Fish -
7	2					
8	2					
9	2					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
5175	46	0°13'	E.	3°13' N.	3°31' N.	0°	0°44'	27°03'	27°22'

December 6th 1842.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1		By S. by E.			First part light breeze and
2	1					
3	1					
4	1					At 1 P.M. Tacked
5	4					
6	3					Ship to S. by E. - The American
7	3					Brig to midday, standing waves
8	1					
9	1					Middle part, fair weather
10	1					and strong breeze At 12 M. Tacked
11	1					
12	1					Ship to S. by E. - At 9 o'clk
1	1					Tacked to S. by E. - all latter part
2	1					fine weather. - Current setting
3	1					N. W. by E. 21 miles -
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
5236	43	0°39'	E.	2°52' N.	3°10' N.	0°	0°26'	27°05'	27°17'

Ship "Cato" from Boston towards Cape Sable

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4					December 7th 1842.
2	4					W. by S. S. by E. First part, fine weather &
3	4					a fresh trade wind. fr
4	4					
5	4					S. by W. S. by E.
6	4					
7	4					all drawing sail set.
8	4					
9	4					Middle part, fine. Breeze and
10	5					cloudy weather. At 7 30 Long
11	5					with rain - Latter part, fine
12	4					weather, with gentle breeze
1	3	1				and glass in cloud -
2	3	1				Current setting. N. by E. 3/4 S.
3	5					
4	4	1				
5	5					
6	5					S. by E. S. by E. Flying Fish - 28 miles
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
S 20 W	106	13 5 S	28	1 52 N	1 57 N	9°	0 35 W	27 35	28 1

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4					December 8th 1842
2	4					S. by E. S. by E. First part, fresh breeze and
3	5					clear weather, all drawing sail set
4	5					S. by W. S. by E.
5	4					
6	4					Middle part, more moderate,
7	4					S. by E. S. by E.
8	4					Latter part much the same -
9	4					
10	4					At 10 o'clock, made the Island of
11	4					"Saint Pauls" bearing N. by E. 1/2 E
12	5					at 10 miles distant - At 11 o'clock
1	3					S. by W. S. by E.
2	5					
3	4					S. by W. S. by E.
4	3					
5	4					Current setting N. by E. 3/4 S.
6	4					
7	4					Thermometer, air 70, water 68.
8	4					
9	4					
10	4					
11	3					
12	9					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
S 20 W	103	12 45 S	35	0 21 N	0 41 N	9°	0 35	28 50	29 08 W

2. Inf. Path from ~~Porter~~ towards Cape Horn.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
						December 9 th 1879

1 Sept. 1. 1868. First part. Clear weather.
 2 with moderate breeze and baffling
 3 East. 2. 1868. At 2. 1/2. Made a sail to
 4 E. 1/2. 1868. Breeze and strong S. West wind.
 5 At 4. 1/2. Sailed Ship to Eastward.
 6 2. 1868. 1. 1868. Middle part. Squally with some
 7 rain. At 5. 1/2. S. 1/2. E. 1/2. Low an
 8 1. 1868. Ship under way, strong S. 1/2. E. 1/2.
 9 1. 1868. In English. Brief of War.
 10 1. 1868. 1. 1868. Strong the same way.
 11 1. 1868. At 5. 1/2. Sailed Ship to S. Eastward.
 12 1. 1868. Latter part. Strong breeze & clear weather.
 1. 1868. all day. 1. 1868. The above
 2. 1868. 1. 1868. 1. 1868. 1. 1868.
 3. 1868. 1. 1868. 1. 1868. 1. 1868.
 4. 1868. 1. 1868. 1. 1868. 1. 1868.
 5. 1868. 1. 1868. 1. 1868. 1. 1868.
 6. 1868. 1. 1868. 1. 1868. 1. 1868.
 7. 1868. 1. 1868. 1. 1868. 1. 1868.
 8. 1868. 1. 1868. 1. 1868. 1. 1868.
 9. 1868. 1. 1868. 1. 1868. 1. 1868.
 10. 1868. 1. 1868. 1. 1868. 1. 1868.
 11. 1868. 1. 1868. 1. 1868. 1. 1868.
 12. 1868. 1. 1868. 1. 1868. 1. 1868.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Variat.	Diff. Long.	Long. in	Long by Ob.
62 ¹	58	000	29 ¹	0° 23' N	0° 40' N	9 ^{IV}	0° 29' 6"	28° 39'	28° 50'

H.	K.	H.K.	Courses,	Winds.	L.W.	Remarks
						Completed 10 th 1842.

[illegible]

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Oh.	Varia.	Diff. Long.	Long. in	Long by Oh.
524th	100	1°15'	40th	1515	0°425'	90th	0°405'	29°30'	29°37'

Ship's Course from Easter towards Cape Horn

11. K. H.K. Courses. Winds. L.W. Remarks. *Commence 11th 1842*

1										
2	1									
3	1									
4	1									
5	1									
6	1									
7	1									
8	1									
9	1									
10	1									
11	1									
12	1									
1	1									
2	1									
3	1									
4	1									
5	1									
6	1									
7	1									
8	1									
9	1									
10	1									
11	1									
12	1									

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
<i>SW 142</i>	<i>2 1/2</i>	<i>49</i>	<i>2 5 5</i>	<i>2 4 1</i>	<i>3 4 1</i>	<i>49</i>	<i>30 26</i>	<i>30 46</i>	

11. K. H.K. Courses. Winds. L.W. Remarks. *Commence 12th 1842*

1	1									
2	1									
3	1									
4	1									
5	1									
6	1									
7	1									
8	1									
9	1									
10	1									
11	1									
12	1									
1	1									
2	1									
3	1									
4	1									
5	1									
6	1									
7	1									
8	1									
9	1									
10	1									
11	1									
12	1									

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
<i>SW 132</i>	<i>2 4 5</i>	<i>4 5</i>	<i>4 4 5</i>	<i>4 4 5</i>	<i>4 4 5</i>	<i>4 3</i>	<i>31 30</i>	<i>31 50</i>	

Ship *Cat* from *Boston* towards *Cape Horn*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
December 13 th 1842.						
1	5					First part of the day, fine,
2	5					weather, and quite breezy,
3	5					with passing clouds.
4	5					
5	5					
6	5					
7	5					At 3 P.M. Pass a Schooner
8	5					steering N. Easterly
9	5					
10	5					Middle & latter part, fresh
11	5					breeze, & fine weather.
12	5					Current setting N. by E. 2 mi
1	5					18 miles
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
N 134	134	2° 05'	29	6° 54' 5	6° 47' 5	6° 0' W	0° 29'	32° 19'	32° 32'

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
December 14 th 1842.						
1	6					First part fine weather
2	6					and quite breeze
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					Middle and latter part, more
9	6					moderation, but fine
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
N 123	123	2° 02'	17	8° 50'	8° 52' 5	6° W	17	30° 49'	2° 59'

Ship's Log from Ports towards Cape Horn

II.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		by N. E.	by N. E.	by N. E.	December 15 th 1842. 69
2	4		by N. E.	by N. E.	by N. E.	Commence with moderate
3	4		by N. E.	by N. E.	by N. E.	breeze, and pleasant weather
4	4		by N. E.	by N. E.	by N. E.	
5	4		by N. E.	by N. E.	by N. E.	
6	4		by N. E.	by N. E.	by N. E.	
7	4		by N. E.	by N. E.	by N. E.	all drawing sail set by
8	4		by N. E.	by N. E.	by N. E.	the wind. Sailed past
9	4		by N. E.	by N. E.	by N. E.	five braces, and passed
10	4		by N. E.	by N. E.	by N. E.	latter part of day
11	4		by N. E.	by N. E.	by N. E.	
12	4		by N. E.	by N. E.	by N. E.	
1	4		by N. E.	by N. E.	by N. E.	by N. E.
2	4		by N. E.	by N. E.	by N. E.	by N. E.
3	4		by N. E.	by N. E.	by N. E.	by N. E.
4	4		by N. E.	by N. E.	by N. E.	by N. E.
5	4		by N. E.	by N. E.	by N. E.	by N. E.
6	4		by N. E.	by N. E.	by N. E.	by N. E.
7	4		by N. E.	by N. E.	by N. E.	by N. E.
8	4		by N. E.	by N. E.	by N. E.	by N. E.
9	4		by N. E.	by N. E.	by N. E.	by N. E.
10	4		by N. E.	by N. E.	by N. E.	by N. E.
11	4		by N. E.	by N. E.	by N. E.	by N. E.
12	4		by N. E.	by N. E.	by N. E.	by N. E.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
56 ^E	110	1°49'	E	10°41'S	10°42'	6°W	106	32°49'	32°54'

II.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	4		by N. E.	by N. E.	by N. E.	December 16 th 1842. 70
2	4		by N. E.	by N. E.	by N. E.	Commence with a strong
3	4		by N. E.	by N. E.	by N. E.	breeze, and moderate
4	4		by N. E.	by N. E.	by N. E.	weather.
5	4		by N. E.	by N. E.	by N. E.	all drawing sail
6	4		by N. E.	by N. E.	by N. E.	set by the wind.
7	4		by N. E.	by N. E.	by N. E.	
8	4		by N. E.	by N. E.	by N. E.	
9	4		by N. E.	by N. E.	by N. E.	and after part, must the
10	4		by N. E.	by N. E.	by N. E.	same.
11	4		by N. E.	by N. E.	by N. E.	
12	4		by N. E.	by N. E.	by N. E.	
1	4		by N. E.	by N. E.	by N. E.	by N. E.
2	4		by N. E.	by N. E.	by N. E.	by N. E.
3	4		by N. E.	by N. E.	by N. E.	by N. E.
4	4		by N. E.	by N. E.	by N. E.	by N. E.
5	4		by N. E.	by N. E.	by N. E.	by N. E.
6	4		by N. E.	by N. E.	by N. E.	by N. E.
7	4		by N. E.	by N. E.	by N. E.	by N. E.
8	4		by N. E.	by N. E.	by N. E.	by N. E.
9	4		by N. E.	by N. E.	by N. E.	by N. E.
10	4		by N. E.	by N. E.	by N. E.	by N. E.
11	4		by N. E.	by N. E.	by N. E.	by N. E.
12	4		by N. E.	by N. E.	by N. E.	by N. E.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
51 ^E	84	1°24'S	E	12°06'S	12°20'S	5°W	88	32°24'	32°57'

Ship *Pat* from *Posta* towards *Cape Horn*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3					December 1 st 1842
2	4					By N. & E. Commenced with light
3	4					winds and pleasant weather
4	4					all drawing sail set by the wind
5	4					
6	4					
7	4					At 2 P.M. Made a sail
8	4					to windward steering S.W.
9	4					At 7 P.M. Now named sail
10	4					
11	4					At 10 P.M. & E. Sprung to be a Brig-
12	4					Middle part. few breezes and
1	3					Pleasant. Latter part.
2	3					much the same
3	3					At 11 P.M. By N. & E.
4	3					At 12 P.M. By N. & E.
5	3					At 1 P.M. By N. & E.
6	3					At 2 P.M. By N. & E.
7	3					At 3 P.M. By N. & E.
8	3					At 4 P.M. By N. & E.
9	3					At 5 P.M. By N. & E.
10	3					At 6 P.M. By N. & E.
11	3					At 7 P.M. By N. & E.
12	3					At 8 P.M. By N. & E.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
By N. 42	1 st	26 E.	13° 44' S	13° 58' S	5° N	26 W	33° 23'	33° 32'	

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3					December 1 st 1842
2	3					At 1 P.M. By N. & E.
3	3					First part. pleasant weather
4	3					and light winds - with an
5	3					all swell drawing from -
6	3					
7	3					
8	3					At 1 P.M. By N. & E.
9	3					At 2 P.M. By N. & E.
10	3					At 3 P.M. By N. & E.
11	3					At 4 P.M. By N. & E.
12	3					At 5 P.M. By N. & E.
1	3					At 6 P.M. By N. & E.
2	3					At 7 P.M. By N. & E.
3	3					At 8 P.M. By N. & E.
4	3					At 9 P.M. By N. & E.
5	3					At 10 P.M. By N. & E.
6	3					At 11 P.M. By N. & E.
7	3					At 12 P.M. By N. & E.
8	3					At 1 P.M. By N. & E.
9	3					At 2 P.M. By N. & E.
10	3					At 3 P.M. By N. & E.
11	3					At 4 P.M. By N. & E.
12	3					At 5 P.M. By N. & E.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
By N.	70	1 st	3 E.	15° 08'	15° 13'	5° N	3 W	33° 35'	33° 33'

Ship *late* from *Porto* towards *Cape Town*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	3					2 December 19th 1842
2	3					First part, light breeze
3	2					and pleasant weather
4	2					are drawing sail set by
5	2					
6	2					By N. N. E. & E. by N.
7	2					
8	2					A heavy swell from S. W.
9	2					
10	2					Latter part much the same
11	2					
12	2					
1	2					Flying Fish & Portuguese Man of War
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE	45	44	6E	1536	53655W	E 6		33 27	33 30 W

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2					2 December 20th 1842
2	2					First part, light breezes and
3	2					passing clouds.
4	2					At 1 P.M. Braced in the
5	2					yards — P. & B. Larboon
6	2					Sto. Sail —
7	1					
8	1					At 8 P.M. — Took R in the Sto. Sail.
9						Middle part rainy — At 4 P.M.
10						Light Breezes — now at 10 —
11						the Larboon Sto. Sail — At 6
12						Braced Forward the yards —
1	2					the latter part in breeze
2	1					leave ship — At 11 A.M.
3	3					fell in with, & saw our old friend
4	4					Ship "Tuscarora" standing
5	6					
6	6					
7	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 40 S	50	38 5	32 E	16 24 5	5	5 W	33 E	33 27 W	5

Ship *Edith* from *Dover* towards *Cape Henry*

11.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1						December 21 st 1842 75
2						at 6.10 Commence with fresh breeze and
3						rainy
4						at 11.40 at 10
5						at 1.10 Draced in the yards
6						and set Sails and Sailed at 1.40
7						at 1.40
8						at 1.40 Took in fore and Main Sails
9						at 1.40 at 1.40
10						at 1.40 at 1.40
11						at 1.40 at 1.40
12						at 1.40 at 1.40
1						in all the Sails and and braces
2						ground to wind - at 1.40
3						at 1.40 at 1.40
4						at 1.40 at 1.40
5						at 1.40 at 1.40
6						at 1.40 at 1.40
7						at 1.40 at 1.40
8						at 1.40 at 1.40
9						at 1.40 at 1.40
10						at 1.40 at 1.40
11						at 1.40 at 1.40
12						at 1.40 at 1.40

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
134E	128	1° 46'	72E	1° 10'	18° 20'S	5° 15'	1° 15'	31° 42'	31° 37'

11.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1						December 22 nd 1842 76
2						at 1.40 at 1.40
3						at 1.40 at 1.40
4						at 1.40 at 1.40
5						at 1.40 at 1.40
6						at 1.40 at 1.40
7						at 1.40 at 1.40
8						at 1.40 at 1.40
9						at 1.40 at 1.40
10						at 1.40 at 1.40
11						at 1.40 at 1.40
12						at 1.40 at 1.40
1						at 1.40 at 1.40
2						at 1.40 at 1.40
3						at 1.40 at 1.40
4						at 1.40 at 1.40
5						at 1.40 at 1.40
6						at 1.40 at 1.40
7						at 1.40 at 1.40
8						at 1.40 at 1.40
9						at 1.40 at 1.40
10						at 1.40 at 1.40
11						at 1.40 at 1.40
12						at 1.40 at 1.40

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
135E	158	2° 05'	92E	2° 05'	20° 55'S	5° 15'	1° 37'	31° 00'	30° 01'W

Ship *Cato* from *Boston* towards *Cape Horn*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	6		SE 1/2 E	St 1/2 N		December 23 rd 1872
2	6					Throughout these 24 hours
3	6					good weather and fresh breeze
4	6		SE 1/2 E			with passing clouds
5	6					
6	6		SE 1/2 E	St 1/2 N		At 4 P.M. set main royal
7	6					AP. 8 P.M. took it in
8	6					
9	6					At 8 A.M. set main royal
10	6					and flying jib
11	6					Heavy swell on
12	6					Sea foul and flying jib
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
NE 1/4 E	164	2° 12'	978	22° 37'	22° 40' 5"	5 W	1° 44'	26° 54'	26° 52'

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	6		SE 1/2 E	St 1/2 N		December 24 th 1872
2	6					Throughout these 24 hours
3	6					fresh breeze and cloudy weather
4	6					
5	6					
6	6					Took in and set the light air sail
7	6					
8	6					as occasion required
9	6					
10	6					Heavy swell on
11	6					
12	6					thunder and flying jib
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE 1/4 E	161	1° 45'	1208	24 36 5"	0	7 W	2° 11'	26° 05'	26° 05'

Ship Cato from Baster towards Cape Town

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	7					December 25 th 1842
2	7					Commences with fresh breeze
3	7					and cloudy weather
4	7					
5	7					11.0 P.M. Took in flying jib—
6	7					At 11 P. Took in main royal
7	7					
8	7					Middle part cloudy
9	7					
10	7					At 3 P.M. Squared the yards
11	7					and set main top mast stte sail
12	7					
1	7					At 4 P. Set lower stte sail,
2	7					main royal, & flying jib
3	7					
4	7					At 7 P. Took in lower stte sail—
5	7					all latter part strong breeze, with
6	7					fading clouds
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 275	182	1° 23' 5"	162 E	25° 59'	26° 05'	7 W	2° 59'	23° 22'	24° 08'

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	7					December 26 th 1842.
2	7					At 1 P.M. Took in flying jib—
3	7					main top stte sail
4	7					
5	7					At 4 P. Took in main royal,
6	7					lower and top stte sails
7	7					
8	7					At 1 P.M. Took in royal, & set
9	7					lower and top stte sails
10	7					
11	7					At 3 P. Took in Main Top Mast
12	7					stte sail At 4 P. Took
1	7					main top mast stte sail
2	7					
3	7					At 5 P. Set last main &
4	7					top stte sails At 7 P.
5	7					set the royal.
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 265	179	1° 45'	161 E	27° 23'	27° 23' 58"	7 W	2° 59'	21° 09'	21° 09'

Ship *Cato* from *Boston* towards *Cape Henry*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2					December 27 th 1852 JWC
2	1					Throughout the 24 hours
3	1					good breeze and pleasant clear
4	1					weather -
5	1					
6	1					All Landward & 4 th day -
7	1					At 2 P.M. Handed in the yard
8	1					
9	1					At 5 P.M. Set Tartar in Main
10	1					Sof. & 4 th day -
11	1					
12	1					At 1 P.M.
1	2					At 4 P.M. Set Tartar in Main
2	2					Sof. & 4 th day -
3	2					At 4 P.M. Set Tartar in Main
4	2					At 4 P.M. Set Tartar in Main
5	2					At 4 P.M. Set Tartar in Main
6	2					At 4 P.M. Set Tartar in Main
7	2					At 4 P.M. Set Tartar in Main
8	2					At 4 P.M. Set Tartar in Main
9	2					At 4 P.M. Set Tartar in Main
10	2					At 4 P.M. Set Tartar in Main
11	2					At 4 P.M. Set Tartar in Main
12	2					At 4 P.M. Set Tartar in Main

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 225 177	1 1/4 5 168	28 37 30	28 37 30	28 37 30	28 37 30	90 W	3 0 52	18 57	1 1/4

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	8					December 28 th 1852
2	8					Commence with fresh breeze
3	8					and cloudy weather.
4	8					
5	7					At 5 P.M. Squared the yard
6	7					At 7 P.M. Took in for our Main yard
7	7					At 4 P.M. Set weather for 1st
8	7					At 4 P.M. Set weather for 1st
9	7					At 4 P.M. Set weather for 1st
10	7					At 4 P.M. Set weather for 1st
11	7					At 4 P.M. Set weather for 1st
12	7					At 4 P.M. Set weather for 1st
1	7					At 4 P.M. Set weather for 1st
2	7					At 4 P.M. Set weather for 1st
3	7					At 4 P.M. Set weather for 1st
4	7					At 4 P.M. Set weather for 1st
5	7					At 4 P.M. Set weather for 1st
6	7					At 4 P.M. Set weather for 1st
7	7					At 4 P.M. Set weather for 1st
8	7					At 4 P.M. Set weather for 1st
9	7					At 4 P.M. Set weather for 1st
10	7					At 4 P.M. Set weather for 1st
11	7					At 4 P.M. Set weather for 1st
12	7					At 4 P.M. Set weather for 1st

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 225 172	1 04	15 98	20 36	23 36	23 36	90 W	5 02	18 57	1 1/4

Ship *Cato* from *Porto* towards *Cape Horn*

December 29th 1842.

83

H.	K.	H.R.	Courses.	Winds.	S.W.	Remarks.
1	1					Commence with strong breeze.
2	1					and thick rainy weather.
3	1					At 2 A.M. Took in four and fifteen fathoms.
4	1					and four on Main top of I. At 4 A.M.
5	1					At 6 A.M. Took in four and fifteen fathoms.
6	1					and four on Main top of I. At 8 A.M.
7	1					At 10 A.M. Took in four and fifteen fathoms.
8	1					and four on Main top of I. At 12 M.
9	1					At 2 P.M. Took in four and fifteen fathoms.
10	1					and four on Main top of I. At 4 P.M.
11	1					At 6 P.M. Took in four and fifteen fathoms.
12	1					and four on Main top of I. At 8 P.M.
1	1					At 10 P.M. Took in four and fifteen fathoms.
2	1					At 12 M. Took in four and fifteen fathoms.
3	1					At 2 A.M. Took in four and fifteen fathoms.
4	1					At 4 A.M. Took in four and fifteen fathoms.
5	1					At 6 A.M. Took in four and fifteen fathoms.
6	1					At 8 A.M. Took in four and fifteen fathoms.
7	1					At 10 A.M. Took in four and fifteen fathoms.
8	1					At 12 M. Took in four and fifteen fathoms.
9	1					At 2 P.M. Took in four and fifteen fathoms.
10	1					At 4 P.M. Took in four and fifteen fathoms.
11	1					At 6 P.M. Took in four and fifteen fathoms.
12	1					At 8 P.M. Took in four and fifteen fathoms.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 25 S	141	54 S	130 E	30° 21' S	30° 25' S	13° W	2° 30'	12° 38'	12° 58'

December 30th 1842.

84

H.	K.	H.R.	Courses.	Winds.	L.W.	Remarks.
1	4					Commence with moderate breeze, and pleasant weather.
2	4					At 2 A.M. Hauled the fore top sail.
3	4					At 4 A.M. Hauled the fore top sail.
4	4					At 6 A.M. Hauled the fore top sail.
5	4					At 8 A.M. Hauled the fore top sail.
6	4					At 10 A.M. Hauled the fore top sail.
7	4					At 12 M. Hauled the fore top sail.
8	4					At 2 P.M. Hauled the fore top sail.
9	4					At 4 P.M. Hauled the fore top sail.
10	4					At 6 P.M. Hauled the fore top sail.
11	4					At 8 P.M. Hauled the fore top sail.
12	4					At 10 P.M. Hauled the fore top sail.
1	4					At 12 M. Hauled the fore top sail.
2	4					At 2 A.M. Hauled the fore top sail.
3	4					At 4 A.M. Hauled the fore top sail.
4	4					At 6 A.M. Hauled the fore top sail.
5	4					At 8 A.M. Hauled the fore top sail.
6	4					At 10 A.M. Hauled the fore top sail.
7	4					At 12 M. Hauled the fore top sail.
8	4					At 2 P.M. Hauled the fore top sail.
9	4					At 4 P.M. Hauled the fore top sail.
10	4					At 6 P.M. Hauled the fore top sail.
11	4					At 8 P.M. Hauled the fore top sail.
12	4					At 10 P.M. Hauled the fore top sail.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 25 S	75	32 S	68 E	31° 00' S	30° 55' S	14° W	1° 19'	11° 39'	11° 35'

Ship <i>Cato</i> from <i>Porto</i> towards <i>Cape Town</i>									
H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.	<i>December 1842</i>		
1	2								
2	2								
3	2								
4	3								
5	3								
6	4								
7	4								
8	5								
9	4								
10	4								
11	4								
12	4								
1	4								
2	3								
3	4								
4	4								
5	3								
6	3								
7	3								
8	3								
9	3								
10	3								
11	3								
12	3								
Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>E 31 S</i>	<i>84</i>	<i>143 S</i>	<i>72 E</i>	<i>31° 48 S</i>	<i>31° 32 S</i>	<i>14 N</i>	<i>1024</i>	<i>16° 11'</i>	<i>0</i>
H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.	<i>January 1843</i>		
1	4								
2	4								
3	5								
4	5								
5	4								
6	4								
7	4								
8	3								
9	3								
10	3								
11	4								
12	5								
1	4								
2	4								
3	3								
4	3								
5	4								
6	4								
7	4								
8	5								
9	5								
10	5								
11	5								
12	5								
Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>E 30 S</i>	<i>100</i>	<i>150 S</i>	<i>87 E</i>	<i>32° 22 S</i>	<i>32° 23 S</i>	<i>15 W</i>	<i>1042</i>	<i>8° 29'</i>	<i>0</i>

Ship *Pato* from *Boston* towards *Cape Town*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	5		SE.	North.		Commenced with gentle breeze
2	6					and pleasant weather.
3	6		SE.	N.W.		
4	5					
5	5					All the Day Sails set
6	5					
7	4	1				
8	4	1				
9	5					At 5 P.M. Squared the yards
10	6	1				
11	6	1				Middle part pleasant with a
12	6	1				fine breeze.
1	6					
2	5	1				Latter part the same.
3	5	1				
4	5	1				
5	6	1				Latitude Obs. $33^{\circ} 25' S$
6	6	1				Longitude by Chron. $6^{\circ} 04' W$
7	6	1				
8	6	1				
9	6	1				
10	6	1				
11	6	1				
12	6	1				

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 2 S	138	10 05	121 E	33 28 S	33 25 S	1 1/4 N	2 25	6 04	0

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	6		SE.	N.W.		This day good breeze and pleasant
2	6		SE.	E.		weather
3	6					
4	6					
5	6	1				Middle part, raining and squally
6	6	1				
7	7					Latter part much the same.
8	7					
9	7					At 7 A.M. Set Larboard Tonn
10	7					
11	7					At 7 A.M. Set Larboard Tonn
12	7					
1	7					At 7 A.M. Set Larboard Tonn
2	7					At 7 A.M. Set Larboard Tonn
3	7					At 7 A.M. Set Larboard Tonn
4	6	1				At 7 A.M. Set Larboard Tonn
5	6	1				At 7 A.M. Set Larboard Tonn
6	6	1				At 7 A.M. Set Larboard Tonn
7	6	1				At 7 A.M. Set Larboard Tonn
8	7	1				At 7 A.M. Set Larboard Tonn
9	8					At 7 A.M. Set Larboard Tonn
10	9					At 7 A.M. Set Larboard Tonn
11	9					At 7 A.M. Set Larboard Tonn
12	9					At 7 A.M. Set Larboard Tonn

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 2 S	164	10 05	154 E	34 25 S	34 22 S	1 1/4 N	3 06	2 58	0

Ship Date from <i>Dover</i> towards <i>Cape of Good Hope</i>											
H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.	January 4 th 1889				
1	3		E	WNW		Comes in with fresh breeze					
2	3					and rain.					
3	3										
4	4										
5	4										
6	4										
7	5										
8	5										
9	4										
10	2										
11											
12	2										
1	3										
2	3										
3	4										
4	4										
5	4										
6	4										
7	4										
8	4										
9	5										
10	5										
11	5										
12	5										
Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.		
E 15° S	94	24	91	34° 46'	34° 39'	19° W	1° 50'	1° 08'	0		

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.	January 5 th 1890				
1	5		E	W by N		First part, fine breeze and					
2	5					pleasant.					
3	5										
4	5										
5	5										
6	5										
7	5										
8	5										
9	5										
10	5										
11	5										
12	6										
1	6										
2	6										
3	5										
4	5										
5	5										
6	5										
7	5										
8	6										
9	7										
10	7										
11	8										
12	8										
Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.		
E 17° S	138	40	51	35° 09'	35° 06'	19° W	2° 40'	0° 46'	0		

Ship Cats from *Boston* towards *Cape. Pon*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	1		<i>Egy. S</i>	<i>W. N. W.</i>		<i>January 6th 1842.</i>
2	1					
3	6					<i>First part fresh breezes with</i>
4	6					<i>passing clouds.</i>
5	6					
6	6					
7	7					<i>At 1.30 P.M. Wind changed to</i>
8	3			<i>W.</i>		<i>SW, and rising, took in all the</i>
9	3					<i>Staysail & royals and Gobs Ship</i>
10	2					
11	2					
12	5		<i>Egy. S</i>	<i>Sp. W.</i>		<i>At 12 P.M. Took in top of Sails</i>
1	5					
2	5		<i>Egy. S</i>	<i>South</i>		<i>All latter part, fresh breezes and</i>
3	5					
4	5					
5	5		<i>Egy. S</i>	<i>Sp. E.</i>		<i>raining</i>
6	5					
7	5			<i>East</i>	<i>SE.</i>	
8	5					
9	5		<i>Egy. S</i>	<i>SE & E</i>		
10	5					
11	5		<i>Egy. S</i>	<i>SE & E</i>		
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
<i>E. 2 N</i>	<i>124</i>	<i>26 N</i>	<i>120 E</i>	<i>34 50</i>	<i>0</i>	<i>22 W</i>	<i>2 27</i>	<i>3 12 E</i>	<i>0</i>

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	6		<i>E. 1/2 N. S. E.</i>			<i>January 7th 1842.</i>
2	6					<i>Comes in with fresh breezes.</i>
3	6		<i>East.</i>	<i>SE & E.</i>		<i>and fine rain. - with a heavy sea on</i>
4	6					
5	3					
6	3					<i>At 4. P.M. Strong gales from SE.</i>
7	3					
8	3					<i>Doth reefes the top Sails -</i>
9	3		<i>E. 1/2 N. S. E.</i>			<i>at 5. P.M. Took in the Gobs</i>
10	3					
11	3					
12	3					<i>Middle part fresh gales and raining</i>
1	3					<i>at 7. P.M. Turned out the reef and</i>
2	3					<i>set the Gobs. At 8. P.M. Set fore and</i>
3	3					<i>Main top of Sails - At 9. P.M. Set</i>
4	3		<i>East.</i>	<i>SE & E.</i>		<i>Main top of Sails. At 1. P.M. Set fore</i>
5	3					<i>and all main royals & flying gear.</i>
6	3		<i>Egy. S</i>	<i>Sp. E.</i>		
7	3					
8	3		<i>E. S. E.</i>	<i>Sp. W.</i>		<i>Barometer very low, can't tell whether</i>
9	3					<i>brisk or not.</i>
10						
11			<i>SE & E.</i>	<i>by W. N. W.</i>		<i>At atop and e. P.M.</i>
12						

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
<i>E. 2 N</i>	<i>89</i>	<i>43 N</i>	<i>70 E</i>	<i>34 07</i>	<i>33 56</i>	<i>22 W</i>	<i>3 46</i>	<i>4 46</i>	<i>0</i>

Ship Cats from Boston towards Cape Cod

II. K. H.K. Courses. Winds. L.W. Remarks. *January 8th 1842.*

1	1		ESE - South			Commences with light breezes and
2	1					cloudy weather —
3	4					
4	4		ESE by E.			
5	1		ESE by E.			at 8 P.M. Tack to SW.
6	3					
7	3					
8	2		SW by W.			Middle part, light wind and clear
9	2					weather —
10	3					
11	4		SW SE.			Latter part rainy —
12	4					
1	4		SW by W. SE by S			
2	1					
3	1		South ESE.			
4	3					
5	3					
6	3		SW - SE.			
7	3					
8	3		SW by S. SE by E			
9	4					
10	4		SW by W. SE by S			
11	4					
12	4					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
S23E. 57	132	22E	34° 40'	6	22W	27E	57E	2	

II. K. H.K. Courses. Winds. L.W. Remarks. *January 9th 1842*

1	3		SE by E. S			First part, light breezes and
2	3		SW. SE			South. ESE. pleasant weather —
3	3					
4	3					
5	3					
6	3		SW. SE.			
7	2					Middle part, pleasant.
8	1		W by S. by W			at 10 P.M. Tack to E.
9	2					
10	3					
11	2					
12	1					
1	2		Calcu.			Latter part good breezes and clear
2	4					weather —
3	4					
4	5		SE. W by N.			Albatross, and Hawks —
5	6					
6	6					
7	6					
8	6					
9	6					
10	7		SE by E —			
11	7					
12	7					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
E 54 S 76	422	63E	35° 30'	35° 23'	22W	117	63E		

Ship "Cato" from Boston towards Cape Horn.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2					January 10 th 1842.
2	2					SE. N.W. First, part, light breeze
3	2					and pleasant weather
4	2					
5	2					
6	6					At 4 P.M. - Took in the stay sails
7	6					and brace forward the yard.
8	6					
9	6					
10	6					At 6 P.M. Set the Starboard Stays
11	6					Sails - Middle and Latter
12	6					part, pleasant weather, and
1	5					Light breeze. -
2	5					
3	5					
4	5					
5	3					Albatross and Hapless P
6	3					Porpoise -
7	2					
8	2					
9	2					
10	2					
11	1					West.
12						Calme.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 1/2 S	117	22 1/2	115 E.	35 45 S	35 38 S	22 W	2 20	7 44	0

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1	2					January 11 th 1842.
2	2					ESE. N.W. Commences with pleasant
3	2					weather, and light breezes.
4	2					
5	2					
6	2					
7	2					
8	14					N.W. Middle & Latter part, the same.
9	14					Calme -
10	4					
11	4					
12	4					
1	2					Albatross and Hapless and
2	2					North Porpoise -
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					N.W.

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.
E 1/2 S	98	0	98 E	35 38 S	35 36 S	22 W	2 00	9 44	0

Ship 'Cato' from Boston towards Cape Town.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
January 12 th 1842.						
1	6		Est. at 11			Third part of the day, strong
2	6					breeze and fair weather.
3	7					
4	7					
5	7					
6	7					
7	7					At 1 P.M. Wind hauled to S. by E.
8	7					hauled to S. by E. 11 miles and
9	7					braced up the yards.
10	6					
11	6					
12	5					
1	6		Est. S. by E.			At 1 P.M. at 11 miles and
2	6					pleasant weather as usual.
3	5		Est. South			
4	5					
5	5		Est. S. by E.			
6	5					
7	5					
8	5		Est. South			At 1 P.M. at 11 miles and
9	5					
10	5		Est. South			
11	5					
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
ESN 147		12N	146	35-24S	35-08S	20N	2059	12-43	P.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
January 13 th 1842.						
1	5		Est. S. by E.			Commenced with first breeze
2	5					and pleasant weather, 04
3	6					at 1 P.M. the wind
4	6		Est. S. by E.			
5	6					
6	6		Est. S. by E.			At 4 P.M. wind hauled to S. by E.
7	6					and - by - 11 miles
8	6					
9	6					
10	6					
11	5					
12	5					
1	6		Est. S. by E.			At 6 P.M. wind hauled to S. by E.
2	6					at 11 miles and
3	5		Est. S. by E.			at 11 miles and
4	5					
5	5		Est. S. by E.			at 11 miles and
6	5					
7	5					
8	5					
9	5					
10	5					
11	5		Est. S. by E.			At 1 P.M. at 11 miles and
12	5					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

Ship *Cat* from *London* towards *Cap. 1843*

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1						
2	5		E.	W.		First fire of the day
3	5					by water
4	5					
5	5					
6	5					At 10 o'clock
7	5					by sail
8	5					
9	4					At 9 o'clock
10						Sailed
11						At 10 o'clock
12						At 11 o'clock
1						At 12 o'clock
2						At 1 o'clock
3						At 2 o'clock
4						At 3 o'clock
5						At 4 o'clock
6						At 5 o'clock
7						At 6 o'clock
8						At 7 o'clock
9						At 8 o'clock
10						At 9 o'clock
11						At 10 o'clock
12						At 11 o'clock

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1						
2						Monday March 21st 1843
3						
4						At 9 o'clock
5						At 10 o'clock
6						At 11 o'clock
7						At 12 o'clock
8						At 1 o'clock
9						At 2 o'clock
10						At 3 o'clock
11						At 4 o'clock
12						At 5 o'clock
1						At 6 o'clock
2						At 7 o'clock
3						At 8 o'clock
4						At 9 o'clock
5						At 10 o'clock
6						At 11 o'clock
7						At 12 o'clock
8						At 1 o'clock
9						At 2 o'clock
10						At 3 o'clock
11						At 4 o'clock
12						At 5 o'clock

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.

11.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
						March 22 1843

2	3	6	11	Acid. Greatly reduced.
3	4	4	11	heavy so stiff, a good
4	5	4	11	quantity of water in bottle
5	6	4	11	Red. so thick with mucus
6	7	4	11	so thick & greatly, rather a heavy
7	8	4	11	secretion the more so
8	9	4	11	and others come to that
9	10	4	11	Thick. slightly so.
10	11	4	11	
11	12	4	11	
12	1	4	11	
1	2	4	11	
2	3	4	11	
3	4	4	11	
4	5	4	11	
5	6	4	11	
6	7	4	11	
7	8	4	11	
8	9	4	11	
9	10	4	11	
10	11	4	11	
11	12	4	11	
12	1	4	11	

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					32.44.				123.6

H.	K.	H.K.	Courses.	Winds	L.W.	Remarks.
						March 22 nd 1843
1	✓	4				At 11. Left the battle ship, and
2	✓	4				was along with
3	✓	4				
4	✓	4				
5	✓	4				at 1 pm left with 4000
6	✓	4				
7	✓	4				Am. ship, and was
8	✓	4				in water
9	✓	4				
10	✓	4				
11	✓	4				
12	✓	4				
1	✓	4				Feb - Jan. weather
2	✓	4				
3	✓	4				
4	✓	4				
5	✓	4				
6	✓	4				
7	✓	4				
8	✓	4				
9	✓	4				
10	✓	4				
11	✓	4				
12	✓	4				

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					30 45				12 45

from

towards

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Dif. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Dif. Long.	Long. in	Long by Ob.

H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Dif. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Dif. Long.	Long. in	Long by Ob.

Find the latitude by bringing the dead
reckoning up from the last observation -

Take up the declination from the Navi-
tical Almanac - & correct it by Table 5
in Bowditch's Navigator - one correction
for the estimated long. is - & the other for
the time to Elapse before Noon -

If the declination & latitude are both
North or both South. Subtract the cor-
rected decl. fr 90° - this gives the Po-
lar distance - And if one is North &
the other South add the corrected
decl. to 90° -

Correct the Sun's altitude by adding
12' to the altitude as at Noon -

Then proceed as in the other cases

Tables 27. + 5

Alt

$34^\circ 41' - V \quad 65^\circ 06'$

$4^{\circ} 23'$ Latitude Log. Secant .00127
 $114^{\circ} 29'$ Polar Distance Log. Co Secant - 03127,
 $49^{\circ} 32'$ Altitude Sun -

 $115^{\circ} 24'$
 $82^{\circ} 42'$ Half Sun Log. Co Sine. 9.10402
 $49^{\circ} 32'$

 $33^{\circ} 10'$ Remainder Log Sine. 9.73805

 $18^{\circ} 57' 46''$

Find the Latitude $9^{\circ} 43' 30''$
 $9^{\circ} 52' 55''$
 $11^{\circ} 32'$ Eq Time

 $9^{\circ} 41' 23''$
 $11^{\circ} 38' 33''$ Chron. $1.57^{\circ} 10''$

 $1.57^{\circ} 10''$
 15°
 $14^{\circ} 16'$

 2.30

 $29^{\circ} 17' 30''$ Long. 7

5 Multiply the Hours by 15, giving degrees, divide the
 minutes, by 4, giving degrees, the remainder if any
 multiply by 15, giving miles - divide the seconds
 by 4, giving miles & the remainder if any.
 multiply by 15, giving seconds of Longitude
 Nov. 29th 1822 *George Harris*

8	21	11								
9	21	11								
10	21	11								
11	21	11								
12	21	11								
Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long by Ob.	
							$36^{\circ} 44' N$			$61^{\circ} 30'$

ME

63 22

Twenty six



3 6234 00073382 7

